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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/147,052	04/05/1999	SHUJI SAITOH	981167	1182
	7590 02/26/2007 , KRATZ, QUINTOS, H	EXAMINER		
1725 K STREET, NW			HINES, JANA A	
SUITE 1000 WASHINGTON, DC 20006 ART UNIT PAPER NUIT PAPER NUIT		PAPER NUMBER		
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	NTHS	02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
		09/147,052	SAITOH ET AL.	
Office Action Summary		Examiner	Art Unit	:
		Ja-Na Hines	1645	;
	The MAILING DATE of this communication app	pears on the cover sheet v	vith the correspondence add	ress
Period fo	• •			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period vire to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO a, cause the application to become A	ICATION. Treply be timely filed INTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	
Status				
1)[🛛	Responsive to communication(s) filed on 07 D	ecember 2006.		• •
2a)☐	•	action is non-final.	•	
3)	Since this application is in condition for allowa		tters, prosecution as to the r	merits is
,	closed in accordance with the practice under E			;
Dienoeit	ion of Claims			i :
· _		_		•
4)[X]	Claim(s) <u>47-52</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra			
5)[7]	Claim(s) is/are allowed.	wii iioiii consideration.		
	Claim(s) <u>47-52</u> is/are rejected.			
·	Claim(s) is/are objected to.			:
·	Claim(s) are subject to restriction and/o	r election requirement.		
	Ton Boundary			•
	ion Papers			
,—	The specification is objected to by the Examine		. h 	
10)[_]	The drawing(s) filed on is/are: a) acc		•	
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct			2 1 121/4\
11)□	The oath or declaration is objected to by the Ex			
•	,			:
Priority (under 35 U.S.C. § 119			
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document			
	2. Certified copies of the priority document			•
	3. Copies of the certified copies of the prio	Ť	n received in this National S	tage
* (application from the International Burea		t received	
* 3	See the attached detailed Office action for a list	or the certified copies no	t received.	
Attachmer	at(s)			:
	ce of References Cited (PTO-892)		Summary (PTO-413)	
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application	•
	er No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 7, 2006 has been entered.

Amendment Entry

2. The amendment filed December 7, 2006 has been entered. Claims 1-46 have been cancelled. New claims 47-52 have been added. Claims 47-52 are under consideration in this office action.

Withdrawal of Rejections

- 3. The following rejections have been withdrawn in view of applicants' amendments and arguments:
- a) The written description rejection of claims 25-26, 32-33, 39-41 and 44 under 35 U.S.C. 112, first paragraph; and
- b) The rejection of claims 25-26, 32-33, 39-41 and 44 under 35 U.S.C. 112, second paragraph.

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Response to Arguments

4. Applicant's arguments with respect to claims 25-26, 32-33, 39-41 and 44 have been considered but are most in view of the new grounds of rejection.

New Grounds of Rejection

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 47-52 are rejected under 35 U.S.C. 101 because the DNA molecule and the polypeptide as described by the claims are products of nature. The sequences can be naturally expressed. The claims do not require that the DNA or the polypeptide be isolated. Insertion of the terms "isolate or purify" would obviate this rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 47-52 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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a) Claims 47 and 49 are drawn to a DNA molecules coding for the amino acid sequence given in SEQ ID NO:2 or 4 respectively. DNA codes for a protein or polypeptide, therefore it is unclear how the DNA molecule will code for the amino acid sequence. Therefore, clarification is required to overcome the rejection.

- b) Claims 47, 49 and 51-52 recite the limitation "the amino acid sequence" while claims 48 and 50 recite the limitation "the sequence". There is insufficient antecedent basis for the limitations in the claims.
- c) Furthermore the phrase "given in" is unclear, therefore it is suggested that the phrase "set forth in" be used.

Conclusion

- 7. No claims allowed.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ja-Na Hines whose telephone number is 571-272-0859. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Jeffery Siew, can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ja-Na Hines 🦕

February 19, 2007

MARK NAVARRO
PRIMARY EXAMINER